

RTIP ID# RIV071259
TCWG Consideration Date: February 23, 2010
<p>Project Description (clearly describe project)</p> <p>The Riverside County Transportation Department, in coordination with the California Department of Transportation (Department), is proposing to construct a roundabout at the intersection of Hammond Road and 4th Street in the community of Mecca, Riverside County, California (see Figures 1 and 2, attached).</p> <p>The proposed project would construct a single-lane traffic circle (roundabout) with three entry points with Hammond Road to the north and south, and 4th street to the west (see Figure 3, attached). The proposed project would also include a bypass right turn lane for the northeast to southeast traffic movement, mountable median aprons, decorative hardscaping, sidewalk and pedestrian crossings, and realignment of Hammond Road. The street improvements would involve removing existing asphalt concrete and installing asphalt concrete pavement over base material, curb and gutter, ADA access ramps, street lighting, pavement markings and striping, traffic signage, minor grading, and relocating existing utilities (including utility poles). The improvements would extend along Hammond Road to the north of the existing Hammond Road/4th Street intersection approximately 350 feet and to the south along Hammond Road approximately 440 feet. Along 4th Street the improvements would extend to the west of the existing Hammond Road/4th Street intersection approximately 215 feet to the new set of railroad tracks. As part of an ongoing project that is independent from this proposed project, the existing 4th Street leg of the intersection on the east side is being eliminated, and a cul-de-sac is being constructed at the end of 4th Street.</p> <p>New right-of-way (ROW) would be required for the proposed project. An additional eight-foot wide area along the north side of 4th Street (0.03 acre) and a triangular area at the southwest corner of the existing Hammond Road/4th Street intersection (0.04 acre) would be acquired from Union Pacific Railroad (UPRR) for the proposed roundabout improvements. The triangular area is currently operating under prescriptive rights. No additional right-of-way is needed for Hammond Road. UPRR has a current project to add a second track along the rail corridor, which is scheduled to be constructed prior to the proposed project. The UPRR project would include grading within 4th Street and within the proposed road easement areas. The UPRR project would also include grading within the existing irrigation ditch and extending the existing drain pipes on the north side of 4th Street.</p> <p>It is anticipated that 4th Street and Hammond Road would remain open during construction; however, some partial closures along both roadways are anticipated. These partial closures would be temporary in duration and during construction, access would be maintained. Depth of excavation associated with the proposed project is anticipated to extend to a maximum of three feet. Construction staging is anticipated to occur along the east side of Hammond Road within the limits of disturbance shown on Figure 3. The proposed project would not require extensive borrow/fill material to be brought onto the site, nor would it generate an extensive amount of waste material that would have to be exported off the site. Any borrow/disposal site for the proposed project, if required, will be selected by the contractor. Any environmental clearances related to the borrow site will be obtained by the contractor prior to construction.</p> <p>The proposed project is included in the 2008 Regional Transportation Plan (RTP) and 2008 cost-constrained Regional Transportation Improvement Program (RTIP) (federal approval date November 17, 2008) as project ID RIV071259.</p>
Type of Project: Intersection channelization

PM Conformity Hot Spot Analysis – Project Summary for Interagency Consultation

County Riverside	Narrative Location/Route & Postmiles Intersection of Hammond Road and 4th Street in the community of Mecca, Riverside County, California (see Figures 1, 2, and 3, attached). Not part of state highway system; therefore, no postmile number.			
Caltrans Projects – EA# 08-925149				
Lead Agency: Riverside County Transportation Department				
Contact Person Shirley Medina	Phone# (951) 787-7141	Fax# (951) 787-7920	Email smedina@rctc.org	
Hot Spot Pollutant of Concern (<i>check one or both</i>) PM2.5 PM10 ✓				
Federal Action for which Project-Level PM Conformity is Needed (<i>check appropriate box</i>)				
✓ Categorical Exclusion (NEPA)	EA or Draft EIS	FONSI or Final EIS	PS&E or Construction	Other
Scheduled Date of Federal Action: June 2010				
NEPA Delegation – Project Type (<i>check appropriate box</i>)				
Exempt	Section 6004 – Categorical Exemption		✓ Section 6005 – Non-Categorical Exemption	
Current Programming Dates (<i>as appropriate</i>)				
	PE/Environmental	ENG	ROW	CON
Start	October 2009	April 2010	N/A	October 2010
End	June 2010	June 2010	N/A	January 2011
Project Purpose and Need (Summary): (<i>attach additional sheets as necessary</i>) The purpose of the proposed project is to improve existing intersection geometrics and to improve traffic flow. Undesirable intersection geometrics at this location include the fact that Hammond Road is skewed at a 54 degree angle to 4th Street. This would be remedied with roundabout geometrics. The project would also improve traffic flow by allowing free-flowing traffic movement through the intersection with the elimination of the current stop-control.				
Surrounding Land Use/Traffic Generators (<i>especially effect on diesel traffic</i>) As shown in Figure 3, the project vicinity consists of the UPRR railroad tracks to the west and south, with Grapefruit Boulevard (former State Route 111) beyond the railroad tracks; and residential uses (single-family development and mobile homes) to the north and east. The land beyond Grapefruit Boulevard to the west and south is undeveloped/agricultural use.				

Opening Year: Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility

Opening Year 2011		
Roadway Segment	No-Build	Build
4th Street, Hammond Rd to Grapefruit Blvd		
LOS (AM/PM)	D/C	D/C
AADT	9,932	9,932
Truck Percentage of AADT	6.6%	6.6%
Truck AADT	656	656
Hammond Road, 66th Ave to 4th Street		
LOS (AM/PM)	D/C	D/C
AADT	9,677	9,677
Truck Percentage of AADT	6.6%	6.6%
Truck AADT	639	639
Hammond Rd, 4th Street to Lincoln Street		
LOS (AM/PM)	B/B	B/B
AADT	4,600	4,600
Truck Percentage of AADT	6.6%	6.6%
Truck AADT	304	304

Note: Traffic volume and LOS information provided by Riverside County Transportation Department, February 2010.

RTP Horizon Year / Design Year: Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility

Horizon Year 2035		
Roadway Segment	No-Build	Build
4th Street, Hammond Rd to Grapefruit Blvd		
LOS (AM/PM)	C/D	C/D
AADT	10,309	10,309
Truck Percentage of AADT	6.6%	6.6%
Truck AADT	680	680
Hammond Road, 66th Ave to 4th Street		
LOS (AM/PM)	C/D	C/D
AADT	10,032	10,032
Truck Percentage of AADT	6.6%	6.6%
Truck AADT	662	662
Hammond Rd, 4th Street to Lincoln Street		
LOS (AM/PM)	A/A	A/A
AADT	2,205	2,205
Truck Percentage of AADT	6.6%	6.6%
Truck AADT	146	146

Note: Traffic volume and LOS information provided by Riverside County Transportation Department, February 2010.

Opening Year: If facility is an interchange(s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT

Opening Year 2011		
4 th Street/Hammond Road Intersection	No-Build	Build
AM Peak Hour LOS	E	A
PM Peak Hour LOS	D	A
AADT, Truck AADT and Truck AADT Percentage same as above (Opening Year 2011)		

Note: Traffic volume and LOS information provided by Riverside County Transportation Department, February 2010.

RTP Horizon Year / Design Year: If facility is an interchange (s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT

Horizon Year 2035		
4 th Street/Hammond Road Intersection	No-Build	Build
AM Peak Hour LOS	C	A
PM Peak Hour LOS	C	A
AADT, Truck AADT and Truck Percentage of AADT same as above (Horizon Year 2035)		

Note: Traffic volume and LOS information provided by Riverside County Transportation Department, February 2010.

Describe potential traffic redistribution effects of congestion relief *(impact on other facilities)*

The proposed project is an intersection improvement/modification intended to better manage traffic flow mobility and safety. There would be no capacity increase. No traffic redistribution effects are anticipated.

Comments/Explanation/Details *(attach additional sheets as necessary)*

The EPA's March 2006 guidance document *Transportation Guidance for Qualitative Hot-spot Analysis in PM2.5 and PM10 Nonattainment and Maintenance Areas* references a two step criteria to identify "a significant volume of diesel truck traffic." The first criterion is facilities with greater than 125,000 AADT volumes. If the first criterion is met, the second criterion is that 8 percent or more of said traffic volumes (i.e., 10,000 vehicles or more) are diesel truck traffic volumes. With respect to traffic volumes along the project limits, both opening year and horizon year AADT volumes are forecast to be below the above-mentioned screening-level threshold criteria of 125,000 total AADT traffic volumes. As such, the project does not have potential to result in a substantial number of diesel vehicles within the project area.

According to the Transportation Conformity Guidance for Qualitative Hot-spot Analyses in PM2.5 and PM10 Nonattainment and Maintenance Areas (page 25), this project is not a project of air quality concern under 40 CFR 93.123(b)(1)(i) and (ii).